FIG.1

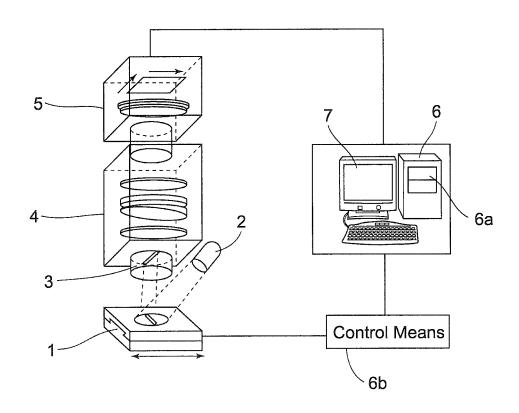


FIG.2

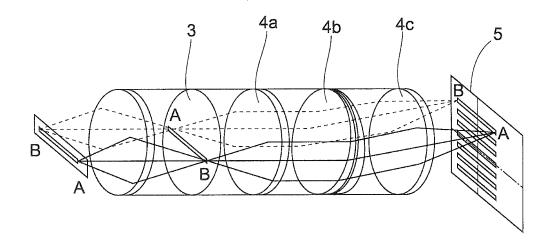


FIG.3

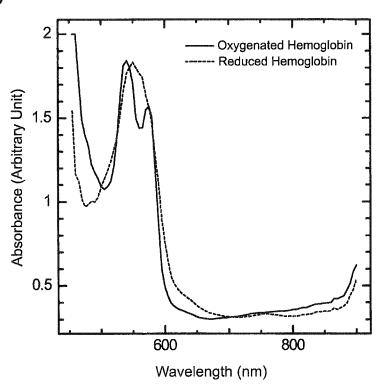


FIG.4

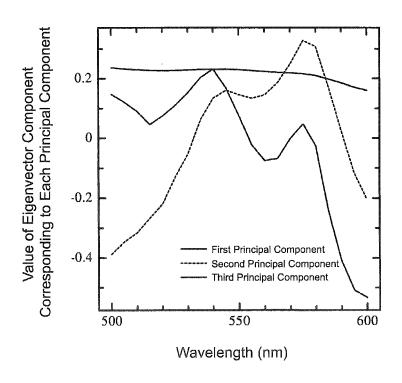
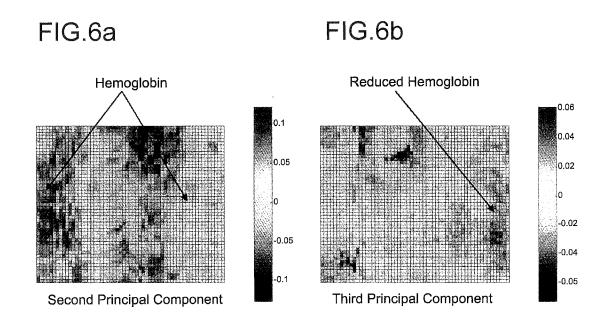


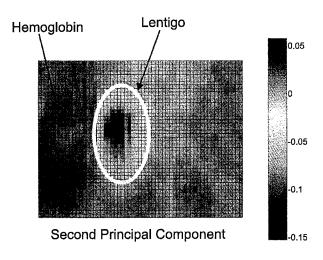
FIG.5b FIG.5a Oxygenated Hemoglobin Hemoglobin 0.03 0.03 0.02 0.02 0.01 -0.01 -0.01 -0.02 -0.02 -0.03 Third Principal Component Second Principal Component

Wavelength Band 500nm ~ 600nm



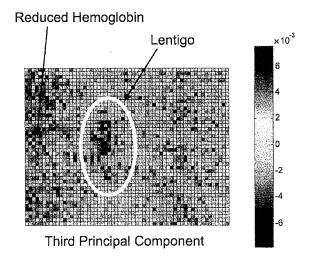
Wavelength Band 500nm ~ 850nm

FIG.7



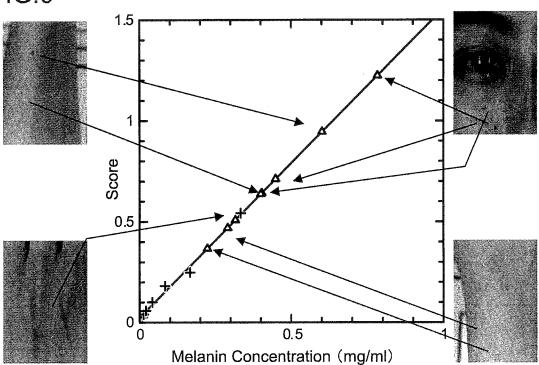
Wavelength Band 500nm ~ 600nm

FIG.8



Wavelength Band 700nm ~ 780nm





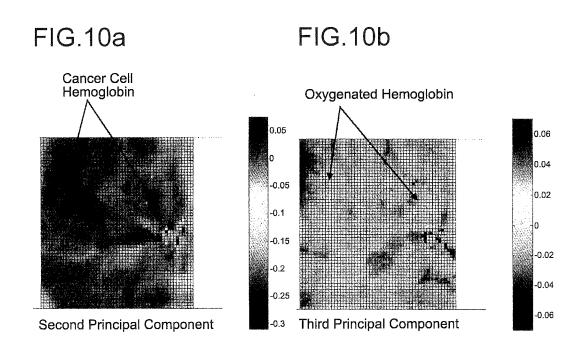
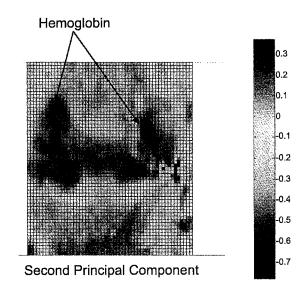
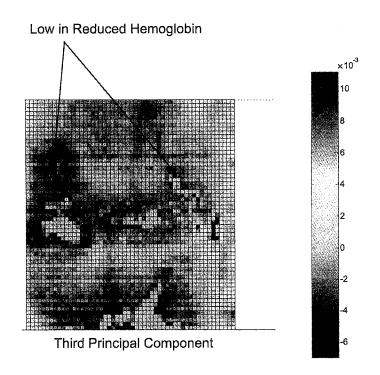


FIG.11



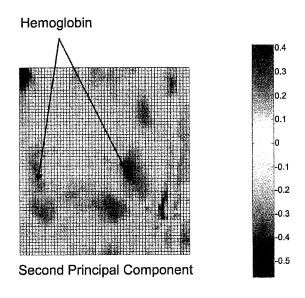
Wavelength Band 500nm ~ 800nm

FIG.12



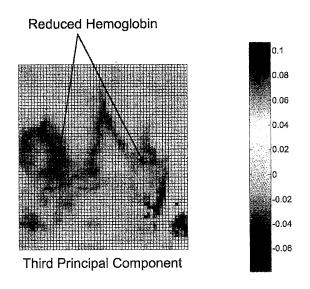
Wavelength Band 700nm ~ 780nm

FIG.13



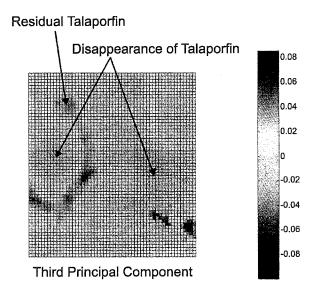
Wavelength Band 500nm ~ 800nm

FIG.14

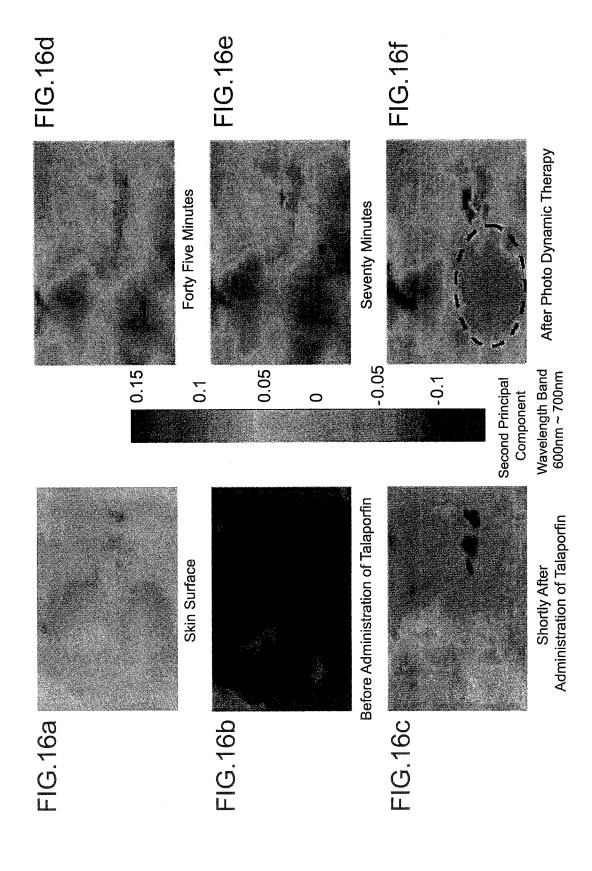


Wavelength Band 500nm ~ 600nm

FIG.15



Wavelength Band 600nm ~ 700nm



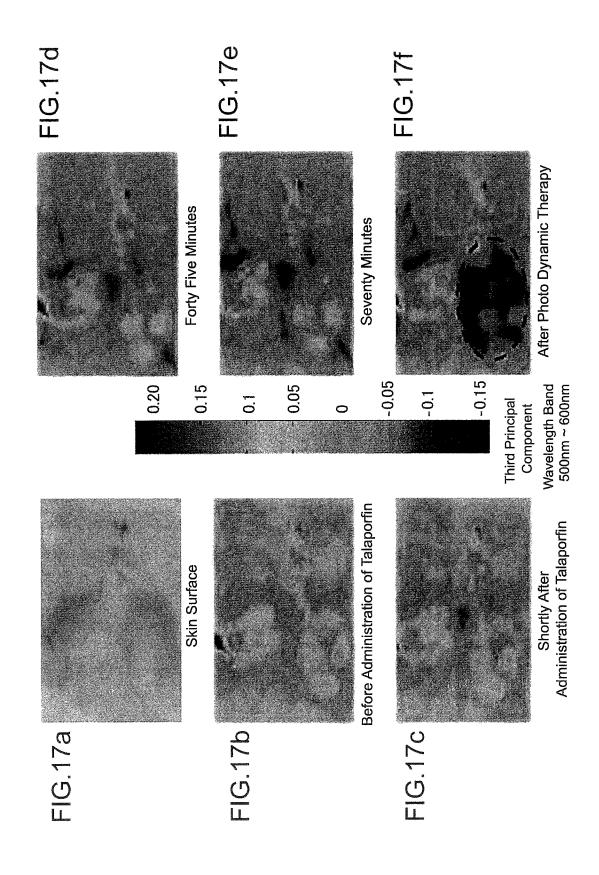


FIG.18

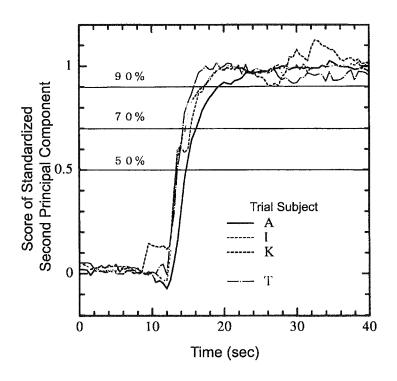


FIG.19

Trial Subject	Age	50%	70%	90%
A	64	4.5 _{sec}	6 _{sec}	$9_{ m sec}$
Т	62	$3.5_{ m sec}$	4.5 _{sec}	$6_{ m sec}$
I	56	$3_{ m sec}$	5 _{sec}	$7_{ m sec}$
N	28	$4_{ m sec}$	4.5 _{sec}	$7_{ m sec}$
K	24	2 _{sec}	$3_{ m sec}$	5.5 _{sec}

FIG.20

Trial Subject	Age	50%	70%	90%
A	64	$5.5_{ m sec}$	$7_{ m sec}$	12 _{sec}
T	62	4 sec	5 sec	6.5 sec
I	56	5 sec	$6_{ m sec}$	8 sec
N	28	$4_{ m sec}$	$5_{ m sec}$	$7_{ m sec}$
K	24	4 sec	$5_{ m sec}$	$6.5_{ m sec}$